



DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
OFFICE OF THE CHIEF ENGINEER OCE
901 M STREET SE BUILDING 218
WASHINGTON DC 20374-5063

IN REPLY REFER TO
NAVFACINST 5420.19E
FAC 00CE/00CE1
19 September 1995

NAVFAC INSTRUCTION 5420.19E

From: Commander, Naval Facilities Engineering Command

Subj: SYSTEM CERTIFICATION AUTHORITY (SCA) FOR SHORE BASED
HYPERBARIC FACILITIES; FUNCTIONS AND MEMBERSHIP OF

Ref: (a) OPNAVINST 3150.27
(b) NAVSEAINST 3151.1
(c) NAVSEA SS521-AA-MAN-010 "U.S. Navy Diving and Manned Hyperbaric
Systems Safety Certification Manual" October 1987

Encl: (1) General Membership of the System Certification Authority for Hyperbaric
Facilities--Members/Alternates

1. Purpose.

To establish the System Certification Authority (SCA) for shore based hyperbaric facilities and to describe its functions.

2. Cancellation.

NAVFACINST 5420.19D of 21 November 1989

3. Definitions

a. Shore based hyperbaric facilities are primarily man-rated pressure vessels. They include such facilities as diver decompression or recompression facilities, deep ocean simulation facilities, and hyperbaric medical treatment facilities. They also include non-man-rated facilities, such as pressure vessels systems used for testing equipment or animals.

b. The system sponsor is the organizational unit responsible for funding the development, construction, operation, repair, alteration and/or maintenance of the hyperbaric system. For a system under development, the sponsor will normally be the Naval Facilities Engineering Service Center East Coast Detachment Acquisition Manager. For systems already in existence and having achieved initial certification, the



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sponsor will normally be the parent command.

c. The system applicant is the organizational unit responsible for the day-to-day operation and maintenance of the hyperbaric system. The applicant deals directly with the SCA in matters directly related to the certification process. The sponsor and the applicant may be the same organizational unit, as in the case of an Acquisition Manager applying for initial certification of a newly-developed system.

d. A waiver is written approval to dismiss from the system certification process any specific item or items normally considered when granting certification of a hyperbaric facility. Waivers can only be granted by the Chief of Naval Operations (CNO).

4. Background.

To assure the safety of deep submergence systems, the Navy has developed a procedure of certification for system adequacy, operator competence and operational constraints of these systems. Reference (a) has assigned to the Commander, Naval Facilities Engineering Command (NAVFAC) the responsibility to perform as the System Certification Authority (SCA) for all shore based hyperbaric facilities.

5. Membership.

Membership shall consist of three categories, primary members, alternate members and advisory members. Their functions and duties are set forth in paragraph six below.

In general, members shall be drawn from the Naval Facilities Engineering Service Center (NAVFACESC) or from NAVFAC Headquarters. Upon request, alternate members, which are not a part of the NAVFAC organization, will assist the NAVFAC SCA in the duties outlined in paragraph 6 for those facilities which they are neither the applicant or sponsor and they are not assisting the applicant for certification. They may also serve, when designated, as the NAVFAC SCA's on-site representative, having the authority to approve temporary configuration changes for test and evaluation purposes, and the resultant revisions to the operating and emergency procedures for their respective facilities. Advisory members will advise the NAVFAC SCA on technical matters and upon request, will assist in the development of certification criteria. In some cases, the solution of unique and unusual problems may require the appointment of new members from government or industry. The Commander, NAVFAC will control the membership through separate correspondence. No member will be called to serve in the certification of any facility for which there may be a conflict of interest.

6. Functions.

The SCA shall perform the following functions in accordance with references (a) through (c):

- a. Review, at key points, documentation related to the analysis, design, construction, operation, alteration and maintenance of hyperbaric facilities to determine possible problem areas which may be prejudicial to the ultimate system certification.
- b. Verify documentation and other information germane to the certification process.
- c. Conduct on-site surveys and participate in operational tests of the facilities.
- d. Present findings and recommendations to the applicant for corrective action.
- e. Recommend waivers of mandatory requirements. (A waiver is granted only by CNO and is submitted for consideration via Naval Sea Systems Command (NAVSEA) Code 00C. Normally, waivers will be granted only when operational considerations are overriding and the specific system is the best or only available system to perform the required task. Waivers are granted for single operations or very limited time periods.)
- f. Assist in the development review and revision of certification related criteria, instructions and manuals.

Primary and alternate members shall perform the duties listed in subparagraphs (a) through (f) above. Advisory members will only perform the duties listed in subparagraph (f) above.

7. SCA Chairman.


The Chairman shall be a member of NAVFACENGCOM's System Certification Authority and shall perform the following duties:

- a. Schedule SCA meetings and develop appropriate agenda.
- b. Distribute background material prior to scheduled meetings.
- c. Monitor attendance.
- d. Prepare, formalize and distribute the minutes of all SCA meetings and maintain a file of the minutes and other records.
- e. Perform detailed liaison with all members of the SCA.
- f. Ensure follow-up action on items requiring continuing action by the SCA.
- g. Develop agenda and schedule meetings for presentations of the SCA's facilities.

h. Issue certification certificate(s) for material and procedural adequacy.

8. Action

- a. The SCA, within the guidelines of paragraph 6, shall perform operations necessary for the system certification of all shore based hyperbaric facilities.
- b. Sponsors for system certification shall make provisions to include funding for SCA services in the overall funding of their facilities.


DR. GET W. MOY, P.E.
By direction

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